AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the International application:

Listing of Claims:

1. (Currently Amended) A method of dispersing aqueous suspensions of solids, the method comprising:

blending block copolymers with an aqueous suspension of the solids, the suspension of solids including hydraulic binders which include materials selected from the group consisting of cement, lime, gypsum, anhydrite and mixtures thereof.

wherein the block copolymers are prepared by reacting a poly(alkylene oxide) compound of the general formula (I)

$$R^1$$
 $C_mH_{2m}O$ C_mH_{2m} C_mH_{2m} C_m

in which

 $R^1 =$ hydrogen, a C1-C20-alkyl radical, a cycloaliphatic C5-C22-cycloalkyl radical, an optionally substituted Co-Cuarryl radical;

m = 2 to 4:

n = 1 to 250;

and Z is selected from the

and Z is selected from the group of formulas III, IV, and V
$$Z = -Y - C - C_m H_{2m'+1}$$

(III)

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X = Cl or Br m'=1 to 4 n' = 0 to 2.

R3 = an optionally substituted C6-C14-arylene radical

$$-\operatorname{SH}, -\operatorname{H}, -\operatorname{P}_{\mathbb{R}^2}, -\operatorname{P}_{\mathbb{R}^4}, -\operatorname{O-P}_{\mathbb{R}^6}$$
(V)

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in which R^4 is H, a $C_1 \cdot C_{12}$ alkyl radical, a $C_5 \cdot C_8 \cdot c$ ycloalkyl radical, a $C_6 \cdot C_{14} \cdot a$ ryl radical, optionally substituted by hydroxyl, carboxyl or sulfo groups, or $\qquad \qquad \qquad - c_m H_{2m} (o \cdot c_m H_{2m})_{n-1}^{-0} R^1$

and R1, R2, m and n have the abovementioned meaning,

with an ethylenically unsaturated monomer compound capable of free radical polymerization and of the general formula (II) in a free radical, anionic or cationic polymerization

in which

R6 and R7 may be H, CH3, COOH or salts thereof, COOR10, CONR10R10

R⁶ and R⁹ together may be O-CO-O

R8 may be H, CH3 or -CH2-COOR10

R⁹ may be COOR¹⁰, an optionally substituted C₆-C₁₄-aryl radical or OR¹¹

 R^{10} may be H, C_{1} - C_{12} -alkyl, C_{1} - C_{12} -hydroxyalkyl,

R¹¹ may be acetyl, and

R1, m and n have the abovementioned meaning.

2. (Cancelled)

- 3. (Previously Presented) The method as claimed in claim l, wherein the reaction of the poly(alkylene oxide) compound with the monomer compound is carried out in the form of a free radical polymerization.
- 4. (Currently Amended) The method as claimed in claim 3, wherein the reaction is effected in the form of an [[*]]atom transfer radical polymerization[[*]] (ATRP).
- (Previously Presented) The method as claimed in claim I, wherein the aryl radicals for R¹ are also substituted by hydroxyl, carboxyl and sulfo groups.
- 6. (Previously Presented) The method as claimed in claim 1, wherein in formula (1), m is 2 or 3 and n is 5 to 250.

- 7. (Currently Amended) The method as claimed in claim I, wherein \mathbb{R}^2 is hydrogen or \mathbb{C}_7 - \mathbb{C}_2 -alkyl <u>radical</u>.
- 8. (Previously Presented) The method as claimed in claim 1, wherein m^\prime is 1 and n^\prime is 0 or 1.
- 9. (Previously Presented) The method as claimed in claim 1, wherein the arylene radical R^3 also has halo, hydroxyl, C_1 - C_{12} -alkoxy, C_1 - C_{12} -dialkylamino or carboxyl groups.
- 10. (Previously Presented) The method as claimed in claim 1, wherein R^6 and R^7 are H, R^6 and R^9 together are O-CO-O, R^8 is H, CH₃ or CH₂COOR¹⁰ and R^9 is COOR¹⁰ or is a phenyl radical optionally substituted by hydroxyl, carboxyl or sulfo groups.
- 11. (Previously Presented) The method as claimed in claim 10, wherein R^6 and R^7 are H, R^8 = H or CH, and R^9 = COOR¹⁰.
- 12. (Previously Presented) The method as claimed in claim 11, wherein R^6 and R^7 are H, R^8 H or CH₃ and R^9 is COOH or salts thereof or COOR¹², where R^{12} is tert-butyl or C_1 - C_6 -hydroxyalkyl.
- 13. (Previously Presented) The method as claimed in claim I, wherein the reaction of the poly (alkylene oxide) compound and the monomer compound is carried out in the presence of a inimer compound.
- 14. (Currently Amended) The method as claimed in claim 13, wherein the inimer compound is prepared by esterification of hydroxy-functionalized monomers, such as, for

example hydroxyethyl methacrylate (HEMA), with ATRP initiators, such as, for example; halopropionic acids.

- 15. (Previously Presented) The method as claimed in claim 13, wherein the inimer compound is prepared by sulfochlorination of styrene.
- 16. (Previously Presented) The method as claimed in claim 1, wherein the reaction is effected in the temperature range from 20 to 110° C.
- 17. (Previously Presented) The method as claimed in claim I, wherein the block copolymers are used in an amount of 0.01 to 5% by weight, based on the suspension of solids.
- 18. (Currently Amended) The method as claimed in claim 17, wherein the suspension of solids <u>further includes contains</u> inorganic particles selected from the group consisting of crushed rock, silicate powder, chalk, clays, porcelain slip, tale, pigments and carbon black.
- (Currently Amended) The method as claimed in claim 17, wherein the suspension of solids contains organic particles, such as, for example, plastics powder.
- $20. (Currently\ Amended)\ A\ method\ of\ superplasticizing\ aqueous\ suspensions\ of\ solids,$ the method comprising:

blending block copolymers with an aqueous suspension of the solids to superplasticize the suspension of solids, the suspension of solids including hydraulic binders which include materials selected from the group consisting of cement, lime, gypsum, anhydrite and mixtures thereof.

wherein the block copolymers are prepared by reacting a poly(alkylene oxide)

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compound of the general formula (I)

$$R^1$$
 O $C_mH_{2m}O$ O C_mH_{2m} O C_mH_{2m} O C

in which

R¹ - hydrogen, a C₁- C₂₀-alkyl radical, a cycloaliphatic C₂- C₁₂-cycloalkyl radical, an optionally substituted C₀- C₁₄-aryl radical;

m = 2 to 4;

n = 1 to 250:

and Z is selected from the group of formulas III, IV, and V

$$Z = -Y - C - C_m H_{2m'+1}$$

$$C_n H_{2n'+1}$$
(III)

where Y = O or NR2

$$R^2 = -H, a \, C_{1^*} C_{12^*} \text{ alkyl radical, a } C_{6^*} C_{14^*} \text{ aryl radical, or } \\ ---- c_m H_{2m} \left(o --- c_m H_{2m} \right)_{n-1}^{n} O^n \\ ----- c_m H_{2m} \left(o --- c_m H_{2m} \right)_{n-1}^{n} O^n \\ ------ c_m H_{2m} \left(o --- c_m H_{2m} \right)_{n-1}^{n} O^n \\ ----------------------$$

X = Cl or Br

m' = 1 to 4

n' = 0 to 2

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where

 R^3 = an optionally substituted C_6 - C_{14} -arylene radical X = C[[[]] or Br_4

$$-SH, -N \xrightarrow{H}, -P \xrightarrow{H}, -O \xrightarrow{P} OR^{5}$$
(V)

in which

 R^4 is H, a C_1 - C_{12} alkyl radical, a C_5 - C_8 -cycloalkyl radical, a C_6 - C_{14} -aryl radical, optionally substituted by hydroxyl, carboxyl or sulfo groups, or

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and R^5 is C_1 - C_{12} alkyl, C_6 - C_{14} -aryl, or

and R^1 , R^2 , m and n have the abovementioned meaning,

with an ethylenically unsaturated monomer compound eapable of free radical polymerization and of the general formula (II) in a free radical, anionic or cationic polymerization

$$R^7$$
 $C = C$ R^8 (II)

in which

R⁶ and R⁷ may be H, CH₃, COOH or salts thereof, COOR¹⁰, CONR¹⁰R¹⁰

R⁶ and R⁹ together may be O-CO-O

R8 may be H, CH3 or -CH2-COOR10

R⁹ may be COOR¹⁰, an optionally substituted C₆-C₁₄-aryl radical or OR¹¹

R¹⁰ may be H, C₁-C₁₂-alkyl, C₁-C₁₂-hydroxyalkyl,

R11 may be acetyl, and

R¹, m and n have the abovementioned meaning.

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21. (Cancelled)

- 22. (Previously Presented) The method as claimed in claim 20 wherein the reaction of the poly(alkylene oxide) compound with the monomer compound is carried out in the form of a free radical polymerization.
- 23. (Currently Amended) The method as claimed in claim 22, wherein the reaction is effected in the form of an [[*]] atom transfer radical polymerization[[*]] (ATRP).
- 24. (Previously Presented) The method as claimed in claim 20, wherein the aryl radicals for R¹ are also substituted by hydroxyl, carboxyl and sulfo groups.
- 25. (Previously Presented) The method as claimed in claim 20, wherein in formula (I), m is 2 or 3 and n is 5 to 250.
- 26. (Currently Amended) The method as claimed in claim 20, wherein that R^2 is hydrogen or $C_1 \cdot C_2$ -alkyl radical.
- 27. (Previously Presented) The method as claimed in claim 20, wherein m^\prime is 1 and n^\prime is 0 or 1.
- 28. (Previously Presented) The method as claimed in claim 20, wherein the arylene radical R³ also has halo, hydroxyl, C₁-C₁₂-alkoxy, C₁-C₁₂-dialkylamino or carboxyl groups.
 - 29. (Previously Presented) The method as claimed in claim 20, wherein R⁶ and R⁷ are

- H, R^6 and R^9 together are O-CO-O, R^8 is H, CH_3 or CH_2COOR^{10} and R^9 is $COOR^{10}$ or is a phenyl radical optionally substituted by hydroxyl, carboxyl or sulfo groups.
- 30. (Previously Presented) The method as claimed in claim 29, wherein R^6 and R^7 are H, R^8 H or CH, and R^9 = COOR 10 .
- 31. (Previously Presented) The method as claimed in claim 30, wherein R^6 and R^7 are H, R^8 = H or CH₃ and R^9 is COOH or salts thereof or COOR¹², where R^{12} is tert-butyl or $C_1 C_6 C_7$ hydroxyalkyl.
- 32. (Previously Presented) The method as claimed in claim 20, wherein the reaction of the poly (alkylene oxide) compound and the monomer compound is carried out in the presence of a inimer compound.
- 33. (Currently Amended) The method as claimed in claim 32, wherein the inimer compound is prepared by esterification of hydroxy-functionalized monomers, such as, for example hydroxyethyl methactylate (HEMA), with ATRP initiators, such as, for example, halopropionic acids.
- 34. (Previously Presented) The method as claimed in claim 32, wherein the inimer compound is prepared by sulfochlorination of styrene.
- 35. (Previously Presented) The method as claimed in claim 20, wherein the reaction is effected in the temperature range from 20 to 110°C.

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- 36. (Previously Presented) The method as claimed in claim 20, wherein the block copolymers are used in an amount of 0.01 to 5% by weight, based on the suspension of solids.
- 37. (Currently Amended) The method as claimed in claim 36, wherein the suspension of solids <u>further includes</u> contains inorganic particles selected from the group consisting of crushed rock, silicate powder, chalk, clays, porcelain slip, talc, pigments and carbon black.
- 38. (Currently Amended) The method as claimed in claim 36, wherein the suspension of solids contains organic particles, such as, for example, plastics powder.